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LABORATORIES OF VISITING PROFESSORS

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Lecture at *ICR*
Structure of TeO_2-Based Glasses
Transparent TeO_2-Based Glass-ceramics
Nonlinear Optical Preperties
Relaxation of Glass Structure

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Lectures at *ICR*
Transport Properties IV and V
Disorder Induced Metal-Insulator Transitition IV and V
Metal-Insulator Transitition in $YBa_2Cu_4O_8$

FUNDAMENTAL MATERIAL PROPERTIES — Composite Material Properties —

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Lectures at *ICR*
Application of Functional Polymers
- Membranes for Artificial Kidney, Ultrafiltration and Reverse Osmosis
- Polymers for Contact Lens

Recent Progress of Synthetic Fibers
Recent Progress of Engineering Plastics
Specialty Fibers
- Graphite Fibers
- Optical Fibers
- Polystyrene Based Functional Fibers

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Lectures at *ICR*
(1) Recent Progress in Polysilane Chemistry.
(2) One-Dimensional Self-Assemblies of Optically Inactive and Optically Active Phthalocyanine Derivatives: Molecular Design, Structure and Properties.
(3) Inversion of Helicity of Optically Active Synthetic and Biological Polymers.

SYNTHETIC ORGANIC CHEMISTRY —Synthetic Theory —

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Lectures at *ICR*
Synthesis of Biologically Active Marine Natural Products. Total Synthesis of Preswinpholide A.
Synthesis of Biologically Active Marine Natural Products. Total Synthesis of Mycalamide A.

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Organic Synthesis Utilizing Theoretical Calculations. From Conformational Analysis to Transition State Modeling. Part 1.
Organic Synthesis Utilizing Theoretical Calculations. From Conformational Analysis to Transition State Modeling. Part 2.
Synthesis of Oligosaccalides by One-Pot Glycosidation